

ABSTRACT OF THE DISCLOSURE

On receiving a link channel assignment request or a  
link channel reassignment request from a mobile station, a  
5 wireless base station specifies a unique word (UW) that is  
not assigned to any other mobile stations, and sends a  
channel assignment notification containing the specified UW  
to the requesting mobile station. The base station also  
sends the specified UW to its user processing unit, which  
10 extracts a signal sent from the requesting mobile station  
and generates a signal to be sent to this mobile station.  
The base station then defines a reference signal based on  
the sent UW, and adjusts each weight vector by using the  
defined reference signal and a signal estimated to have been  
15 sent from the requesting mobile station, thereby directing  
the directivity pattern to the requesting mobile station.